

## artdaq - Support #21161

### Use compare and exchange operations on atomics within SharedMemoryManager

10/16/2018 09:28 AM - Eric Flumerfelt

<b>Status:</b>	Closed	<b>Start date:</b>	10/16/2018
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Eric Flumerfelt	<b>% Done:</b>	0%
<b>Category:</b>	Known Issues	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	artdaq_core v3_04_03	<b>Co-Assignees:</b>	
<b>Experiment:</b>	-		
<b>Description</b>			
Currently, atomics are updated using the assignment operator and re-checked later. This is a misuse of atomics, and they should be updated and checked using the compare_and_exchange functions. This will also allow more explicit ordering of buffer operations within SMM.			

#### History

##### #1 - 10/17/2018 02:01 PM - Eric Flumerfelt

- Category set to Known Issues
- Status changed from New to Resolved
- Assignee set to Eric Flumerfelt
- Target version set to artdaq\_core v3\_04\_03

Resolved by commit:914b0221c0f. Incorrect atomic usage was leading to multiple instances where processes got into race conditions with each other setting the buffer semaphore flags.

##### #2 - 10/25/2018 01:40 PM - Eric Flumerfelt

- Status changed from Resolved to Closed